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Study Guide

Classifying Quadrilaterals

A quadrilateral is a figure with four sides and four angles. You can use sides and angles to classify quadrilaterals.

Parallelogram

Opposite sides are parallel.

Opposite sides are congruent.

Trapezoid

One pair of parallel sides.

Rectangle

Opposite sides are parallel.

Opposite sides are congruent.

All four angles are right angles.

Rhombus

Opposite sides are parallel.

All four sides are congruent.

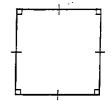
Square

Opposite sides are parallel.

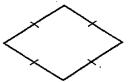
All four sides are congruent. All four angles are right angles.

Example

Identify all names that describe each quadrilateral.

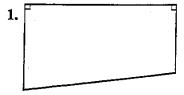


quadrilateral parallelogram rectangle rhombus square

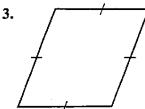


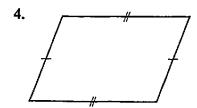
quadrilateral parallelogram rhombus

Let Q = quadrilateral, P = parallelogram, R = rectangle, S = square, RH = rhombus, and T = trapezoid. Write all of the letters that describe the figure inside it.

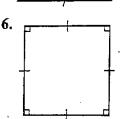












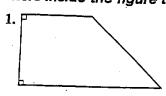
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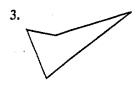
Practice

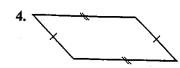
Classifying Quadrilaterals

Let Q = quadrilateral, P = parallelogram, R = rectangle, S = square, RH = rhombus, and T = trapezoid. Write all of the letters inside the figure that describe it.

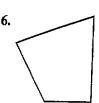


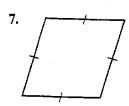
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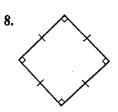














10. Name all of the quadrilaterals that are both a rhombus and a rectangle.

Tell whether each statement is true or false. Then draw a figure to justify your answer.

- 11. A rectangle has opposite sides congruent.
- 12. A trapezoid can have three right angles.
- 13. In square ABCD, $m \angle A = 3x^{\circ}$, $m \angle B = (x + 60)^{\circ}$, $m \angle C = (4x 30)^{\circ}$, and $m \angle D = (2x + 30)^{\circ}$. Find the value of x.
- 14. In trapezoid QRST, $m \angle Q = 60^{\circ}$, $m \angle R = 120^{\circ}$, $m \angle S = 113^{\circ}$, and $m \angle T = a^{\circ}$. Find the value of a.